

INFORMATION DISCLOSURE STATEMENT <small>(Use several sheets if necessary)</small> <small>NOV 28 2005</small>				ATTY. DOCKET NO. 2TM-104835 (SD-8467)		SERIAL NO. 10/658, 906		
				APPLICANT Kulp et al.				
				FILING DATE 9/10/2003		GROUP 28TT 2828		
				U.S. PATENT DOCUMENTS				
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME		CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
DW	AA	H1965	6/5/2001	Burns et al.		372	22	
	AB	3,609,398	9/28/1971	Bjorkholm		307	88.3	
	AC	3,628,186	12/14/1971	Rumson et al.		331	107 R	
	AD	3,948,345	4/6/1976	Rosencwaig		181	.5	
	AE	4,622,845	11/18/1986	Ryan et al.		73	24	
	AF	5,117,126	5/26/1992	Geiger		359	330	
	AG	5,202,560	4/13/1993	Kock et al.		356	435	
	AH	6,334,647	2/5/2002	Jourdain et al.		250	339.07	
	AI	6,757,096	6/29/2004	Schiller		359	330	
↓	AJ	6,813,429	11/2/2004	Price et al.		385	125	
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	PUBLI-CATION DATE	COUNTRY		CLASS	SUB-CLASS	TRANS- LATION YES I NO
DW	AP	EP 0 857 997 B1	24.10.2001	DE FR GB		7	G02F 1/39	X
↓	AQ	WO 98/01927	15.01.1998	GB, JB, US, European patent (AT, BE, CH, DE, DK, ES, FI, GB, GR, IE, IT, LU, MC, NL, PT, SRE		6	H01S 3/108 G02F 1/39	X
OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)								
DW	AL	M. J. T. Milton and P. T. Woods, "Pulse averaging methods for a laser remote monitoring system using atmospheric backscatter," Applied Optics, 26, no. 13, 2598 (1987).						
	AM	N. Menyuk, D. K. Killinger, and C. R. Menyuk, "Limitations of signal averaging due to temporal correlation in laser remote-sensing measurements," Applied Optics, 21, no. 18, 3377 (1982).						
	AN	T. G. McRae and T. J. Kulp, "Backscatter absorption gas imaging: a new technique for gas visualization," Applied Optics, 32, no. 21, 4037 (1993).						
↓	AO	T. J. Kulp, P. Powers, R. Kennedy, and U. Goers, "Development of a pulsed backscatter-absorption gas-imaging system and its application to the visualization of natural gas leaks," Applied Optics, 37, no. 18, 3912 (1998).						
EXAMINER <i>[Signature]</i>				DATE CONSIDERED 12/26/05				
<small>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to Applicant.</small>								

FORM PTO-1449 (Modified)	ATTY. DOCKET NO.	SERIAL NO.
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT(S)' INFORMATION DISCLOSURE STATEMENT	2TM-104835 (SD-8467)	10/658,906
(Use several sheets if necessary)	APPLICANT Kulp et al.	
	FILING DATE: September 10, 2003	GROUP ART UNIT: <u>2877 212D</u>

OTHER ART (Include Author, Title, Date, Pertinent Pages, Etc.)

D✓	C1	GREGORY DAVID MILLER, "Periodically Poled Lithium Niobate: Modeling, Fabrication, and Nonlinear-Optical Performance", Ph.D. Dissertation, Stanford University, July 1998.
	C2	L. GOLDBERG, J. KOPLOW, D. G. LANCASTER, R. F. CURL, and F. K. TITTEL, "Mid-infrared difference-frequency generation source pumped by a 1.1-1.5-μm dual-wavelength fiber amplifier for trace-gas detection", <i>OPTICS LETTERS</i> , Vol. 23, No. 19, October 1, 1998, pp. 1517-1519.
	C3	D. G. LANCASTER, D. RICHTER, R. F. CURL, F. K. TITTEL, L. GOLDBERG, and J. KOPLOW, "High-power continuous-wave mid-infrared radiation generated by difference frequency mixing of diode-laser-seeded fiber amplifiers and its application to dual-beam spectroscopy", <i>OPTICS LETTERS</i> , Vol. 24, No. 23, December 1, 1999, pp. 1744-1746.
	C4	H. DAHNKE, D. KLEINE, P. HERING, and M. MÜRTZ, "Real-time monitoring of ethane in human breath using mid-infrared cavity leak-out spectroscopy", <i>Appl. Phys. B</i> 72, May 9, 2001, pp. 971-975.
	C5	NAOYA MATSUOKA, SHIGERU YAMAGUCHI, KENZO NANRI, TOMOO FUJIOKA, DIRK RICHTER and FRANK K. TITTEL, "Yb Fiber Laser Pumped Mid-IR Source Based on Difference Frequency Generation and Its Application to Ammonia Detection", <i>Jpn. J. Appl. Phys.</i> , Vol. 40, Part 1, No. 2A, February 2001, pp. 625-628.
	C6	UTA-BARBARA GOERS, KARLA ARMSTRONG, RICKY SOMMERS, THOMAS J. KULP, DAHV A.V. KLINER, SAL BIRTOLA, LEW GOLDBERG, JEFFREY P. KOPLOW, and T.G. MCRAE, "Development of a compact gas imaging sensor employing a cw fiber-amp-pumped PPLN OPO", Presentation at CLEO, April 2001.
	C7	SCOTT E. BISSON, KARLA A. ARMSTRONG, THOMAS J. KULP, and MATTHEW HARTINGS, "Broadly tunable, mode-hop-tuned cw optical parametric oscillator based on periodically poled lithium niobate", <i>APPLIED OPTICS</i> , Vol. 40, No. 33, 20 November 2001, pp. 6049-6055.
	C8	CDRL Report No. A009, "Commercialization of Technologies to Lower Defense Costs, Draft Laser-Based Sensors for VOCs, Technology Assessment", 19 pages, March 22, 2002.
	C9	"Construction of CW Optical Parametric Oscillators", http://www.nat.vu.nl/vakgroepen/atom/english/research/apps/spec/opos.html , August 15, 2002.
	C10	SERDP Fact Sheet, "Sensors for VOC/NOx and Metal Particulate Emissions Monitoring", March 25, 1999.

EXAMINER	DATE CONSIDERED
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(Information Disclosure Statement — Section 9 PTO-1449 (Modified) (6-1))